

ABSTRACT

A fuel cell with enhanced cell output includes a fuel electrode which has a fuel-diffusion layer for diffusing fuel and a fuel-reactive layer for reaction of the fuel; an oxygen electrode which has an oxygen-diffusion layer for diffusing oxygen and an oxygen-reactive layer for reaction of the oxygen; and an electrolyte layer between the fuel electrode and the oxygen electrode. The fuel-reactive layer is in contact with the fuel-diffusion layer, and the oxygen-reactive layer is in contact with the oxygen-diffusion layer. Further, the fuel-diffusion layer has higher water-repellency than the oxygen-diffusion layer.